



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,487	03/15/2004	James McSwiggen	04-218 (400.148)	9362
20306	7590	03/10/2006	EXAMINER	
MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP			WOLLENBERGER, LOUIS V	
300 S. WACKER DRIVE			ART UNIT	
32ND FLOOR			PAPER NUMBER	
CHICAGO, IL 60606			1635	

DATE MAILED: 03/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

✓

**Notice to Comply**

**Application No.**

10/800,487

**Applicant(s)**

McSwiggen

**Examiner**

Louis V. Wollenberger

**Art Unit**

1635

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS  
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE  
DISCLOSURES**

Applicant must file the items indicated below within the time period set in the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☒ 7. Other: **Please see the enclosed Raw Sequence Listing Error Report for explanation of the error(s). See, for example, page 11 of the report. A substitute copy of the CRF is required before the amended claims can be searched and examined.**

**Applicant Must Provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", **as well as an amendment specifically directing its entry into the application.**
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (571) 272-2510

For CRF Submission Help, call (571) 272-2501/2583.

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY**

***CRF Problem Report***

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). A computer readable form (CRF) of the sequence listing was submitted along with Applicants' response to the outstanding Office Action on December 8, 2005. However, the CRF could not be processed by the Scientific and Technical Information Center (STIC) for the reason(s) set forth on the attached Raw Sequence Listing Error Report.

See, for example, page 11 of the Raw Sequence Listing Error Report.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached CRF Diskette Problem Report with the reply.

***Location of the Application***

Applicants are also notified that the location of the application has changed. The application has been docketed to Examiner Louis V. Wollenberger in Art Unit 1635.

*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis V. Wollenberger whose telephone number is 571-272-8144. The examiner can normally be reached on Mon–Fri, 8:00 am–4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's acting supervisor, Andrew Wang can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval system (PAIR). Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete

Art Unit: 1635

service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Louis V. Wollenberger, Ph.D.  
Examiner  
Art Unit 1635  
March 6, 2006



SEAN MCGARRY  
PRIMARY EXAMINER  
1635

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/800,487A  
Source: IFW/b  
Date Processed by STIC: 12/12/05

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,  
Alexandria, VA 22314**

Revised 01/24/05



IFW16

## RAW SEQUENCE LISTING

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:05

17-05.ST25.txt      Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-

Output Set: N:\CRF4\12122005\J800487A.raw

3 <110> APPLICANT: Sirna Therapeutics, Inc.  
 4 McSwiggen, James  
 6 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition Of  
 Intercellular Adhesion  
 7 Molecule (ICAM) Gene Expression Using Short Interfering Nucleic  
 8 Acid (siNA)  
 10 <130> FILE REFERENCE: 400/148 (MBHB04-218)  
 12 <140> CURRENT APPLICATION NUMBER: US 10/800,487A  
 13 <141> CURRENT FILING DATE: 2004-03-15  
 15 <150> PRIOR APPLICATION NUMBER: US 10/757,803  
 16 <151> PRIOR FILING DATE: 2004-01-15  
 18 <150> PRIOR APPLICATION NUMBER: US 10/720,448  
 19 <151> PRIOR FILING DATE: 2003-11-24  
 21 <150> PRIOR APPLICATION NUMBER: US 10/693,059  
 22 <151> PRIOR FILING DATE: 2003-10-23  
 24 <150> PRIOR APPLICATION NUMBER: US 10/444,853  
 25 <151> PRIOR FILING DATE: 2003-05-23  
 27 <150> PRIOR APPLICATION NUMBER: US 10/427,160  
 28 <151> PRIOR FILING DATE: 2003-04-30  
 30 <150> PRIOR APPLICATION NUMBER: PCT/US03/05346  
 31 <151> PRIOR FILING DATE: 2003-02-20  
 33 <150> PRIOR APPLICATION NUMBER: PCT/US03/05028  
 34 <151> PRIOR FILING DATE: 2003-02-20  
 36 <150> PRIOR APPLICATION NUMBER: US 60/358,580  
 37 <151> PRIOR FILING DATE: 2002-02-20  
 39 <150> PRIOR APPLICATION NUMBER: US 60/363,124  
 40 <151> PRIOR FILING DATE: 2002-03-11  
 42 <150> PRIOR APPLICATION NUMBER: US 60/386,782  
 43 <151> PRIOR FILING DATE: 2002-06-06  
 45 <150> PRIOR APPLICATION NUMBER: US 60/406,784  
 46 <151> PRIOR FILING DATE: 2002-08-29  
 48 <150> PRIOR APPLICATION NUMBER: US 60/408,378  
 49 <151> PRIOR FILING DATE: 2002-09-05  
 51 <150> PRIOR APPLICATION NUMBER: US 60/409,293  
 52 <151> PRIOR FILING DATE: 2002-09-09  
 54 <150> PRIOR APPLICATION NUMBER: US 60/440,129  
 55 <151> PRIOR FILING DATE: 2003-01-15  
 57 <150> PRIOR APPLICATION NUMBER: PCT/US02/15876  
 58 <151> PRIOR FILING DATE: 2002-05-17  
 60 <160> NUMBER OF SEQ ID NOS: 439  
 62 <170> SOFTWARE: PatentIn version 3.3  
 64 <210> SEQ ID NO: 1  
 65 <211> LENGTH: 19

Does Not Comply  
 Corrected Diskette Needed

*11-14*

66 <212> TYPE: RNA



## RAW SEQUENCE LISTING

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:05

17-05.ST25.txt

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-

Output Set: N:\CRF4\12122005\J800487A.raw

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70 <223> OTHER INFORMATION: Description of Artificial Sequence: Target
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72 <400> SEQUENCE: 1
73 gccccagucg acgcugagc 19
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 19
78 <212> TYPE: RNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
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Sequence/siNA sense region
84 <400> SEQUENCE: 2
85 cuccucugcu acucagagu 19
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 19
90 <212> TYPE: RNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence: Target
Sequence/siNA sense region
96 <400> SEQUENCE: 3
97 uugcaaccuc agccucgcu 19
100 <210> SEQ ID NO: 4
101 <211> LENGTH: 19
102 <212> TYPE: RNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Target
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109 uauggcuccc agcagcccc 19
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 19
114 <212> TYPE: RNA
115 <213> ORGANISM: Artificial Sequence
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121 ccggcccgcg cugcccgcga 19
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 19
126 <212> TYPE: RNA
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129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Target
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132 <400> SEQUENCE: 6
133 acuccugguc cugcucggg 19
136 <210> SEQ ID NO: 7

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137 <211> LENGTH: 19  
138 <212> TYPE: RNA  
139 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:05

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-  
17-05.ST25.txt

Output Set: N:\CRF4\12122005\J800487A.raw

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141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Target
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145 ggcucuguuc ccaggaccu 19
148 <210> SEQ ID NO: 8
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150 <212> TYPE: RNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
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156 <400> SEQUENCE: 8
157 uggcaaugcc cagacaucau 19
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161 <211> LENGTH: 19
162 <212> TYPE: RNA
163 <213> ORGANISM: Artificial Sequence
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184 <210> SEQ ID NO: 11
185 <211> LENGTH: 19
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192 <400> SEQUENCE: 11
193 cuccgugcug gugacaugc 19
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 19
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204 <400> SEQUENCE: 12
205 cagcaccucc ugugaccag 19
208 <210> SEQ ID NO: 13
209 <211> LENGTH: 19

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210 <212> TYPE: RNA  
211 <213> ORGANISM: Artificial Sequence  
213 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:05

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-  
17-05.ST25.txt

Output Set: N:\CRF4\12122005\J800487A.raw

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217 gcccaaguug uggggcaua 19  
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225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Description of Artificial Sequence: Target  
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229 agagaccccg uugccuaaa 19  
232 <210> SEQ ID NO: 15  
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234 <212> TYPE: RNA  
235 <213> ORGANISM: Artificial Sequence  
237 <220> FEATURE:  
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Target  
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241 aaaggaguug cuccugccu 19  
244 <210> SEQ ID NO: 16  
245 <211> LENGTH: 19  
246 <212> TYPE: RNA  
247 <213> ORGANISM: Artificial Sequence  
249 <220> FEATURE:  
250 <223> OTHER INFORMATION: Description of Artificial Sequence: Target  
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252 <400> SEQUENCE: 16  
253 uggaacaac cggaaggug 19  
256 <210> SEQ ID NO: 17  
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259 <213> ORGANISM: Artificial Sequence  
261 <220> FEATURE:  
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265 guaugaacug agcaaugug 19  
268 <210> SEQ ID NO: 18  
269 <211> LENGTH: 19  
270 <212> TYPE: RNA  
271 <213> ORGANISM: Artificial Sequence  
273 <220> FEATURE:  
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Target  
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276 <400> SEQUENCE: 18  
277 gcaagaagau agccaacca 19  
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281 <211> LENGTH: 19  
282 <212> TYPE: RNA

283 <213> ORGANISM: Artificial Sequence  
285 <220> FEATURE:  
286 <223> OTHER INFORMATION: Description of Artificial Sequence: Target  
Sequence/siNA sense region

## RAW SEQUENCE LISTING

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:05

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-  
17-05.ST25.txt

Output Set: N:\CRF4\12122005\J800487A.raw

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289 aaugugcuau ucaaacugc 19
292 <210> SEQ ID NO: 20
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295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
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301 cccugauggg cagucaaca 19
304 <210> SEQ ID NO: 21
305 <211> LENGTH: 19
306 <212> TYPE: RNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
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313 agcuaaaacc uuccucacc 19
316 <210> SEQ ID NO: 22
317 <211> LENGTH: 19
318 <212> TYPE: RNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
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325 cguguacugg acuccagaa 19
328 <210> SEQ ID NO: 23
329 <211> LENGTH: 19
330 <212> TYPE: RNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence: Target
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337 acggguggaa cuggcaccc 19
340 <210> SEQ ID NO: 24
341 <211> LENGTH: 19
342 <212> TYPE: RNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: Description of Artificial Sequence: Target
Sequence/siNA sense region
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349 ccuccccucu uggcagcca 19
352 <210> SEQ ID NO: 25
353 <211> LENGTH: 19
354 <212> TYPE: RNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:

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358 <223> OTHER INFORMATION: Description of Artificial Sequence: Target  
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360 <400> SEQUENCE: 25



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<212> RNA  
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<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

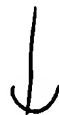
<222> (20)..(21)

<223> n' stands for thymidine

<400> 341

gagacacugc agacagugan n

no t's (or n's representing t's) allowed in  
an RNA sequence



21

This error appears in subsequent  
sequences,  
too.

12

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/800,487A

DATE: 12/12/2005  
TIME: 10:21:06

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-  
17-05.ST25.txt

Output Set: N:\CRF4\12122005\J800487A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:341; N Pos. 20,21  
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Seq#:343; N Pos. 20,21  
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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/800,487A

DATE: 12/12/2005  
TIME: 10:21:06

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-  
17-05.ST25.txt

Output Set: N:\CRF4\12122005\J800487A.raw

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Seq#:419; N Pos. 20,21  
Seq#:420; N Pos. 20,21  
Seq#:421; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:422; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:423; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:424; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:425; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:426; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:427; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:428; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:429; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:430; N Pos. 20,21  
Seq#:431; N Pos. 20,21  
Seq#:432; N Pos. 20,21  
Seq#:433; N Pos. 20,21

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/800,487A

DATE: 12/12/2005  
TIME: 10:21:06

17-05.ST25.txt

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-

Output Set: N:\CRF4\12122005\J800487A.raw

Seq#:434; N Pos. 20,21  
Seq#:435; N Pos. 20,21  
Seq#:436; N Pos. 20,21  
Seq#:437; N Pos. 20,21  
Seq#:438; N Pos. 20,21

## VERIFICATION SUMMARY

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:06

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-

17-05.ST25.txt

Output Set: N:\CRF4\12122005\J800487A.raw

L:4159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:341 after pos.:0  
L:4177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342 after pos.:0  
L:4195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:343 after pos.:0  
L:4213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:344 after pos.:0  
L:4231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:345 after pos.:0  
L:4249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:346 after pos.:0  
L:4267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:347 after pos.:0  
L:4285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:348 after pos.:0  
L:4303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:349 after pos.:0  
L:4321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:350 after pos.:0  
L:4339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:351 after pos.:0  
L:4357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:352 after pos.:0  
L:4375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:353 after pos.:0  
L:4393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354 after pos.:0  
L:4411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:355 after pos.:0  
L:4429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:356 after pos.:0  
L:4482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:357 after pos.:0  
L:4535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358 after pos.:0  
L:4593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:359 after pos.:0  
L:4631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360 after pos.:0  
L:4684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:0  
L:4737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:0  
L:4790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:363 after pos.:0  
L:4853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:364 after pos.:0  
L:4906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:365 after pos.:0  
L:4954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:0  
L:5007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:367 after pos.:0  
L:5045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:368 after pos.:0  
L:5088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:369 after pos.:0  
L:5141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370 after pos.:0  
L:5189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371 after pos.:0  
L:5242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372 after pos.:0  
L:5325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:373 after pos.:0  
L:5403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:374 after pos.:0  
L:5491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:375 after pos.:0  
L:5544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:376 after pos.:0  
L:5617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:377 after pos.:0  
L:5700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:378 after pos.:0  
L:5778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:379 after pos.:0  
L:5871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:380 after pos.:0  
L:5949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:381 after pos.:0  
L:6022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:382 after pos.:0  
L:6105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:383 after pos.:0  
L:6153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:384 after pos.:0  
L:6221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:385 after pos.:0  
L:6299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:386 after pos.:0  
L:6372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:387 after pos.:0  
L:6460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:388 after pos.:0

## VERIFICATION SUMMARY

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:06

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-

17-05.ST25.txt

Output Set: N:\CRF4\12122005\J800487A.raw

L:6543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389 after pos.:0  
L:6621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:390 after pos.:0  
L:6709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:391 after pos.:0  
L:6762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:392 after pos.:0  
L:6835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:393 after pos.:0  
L:6918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:394 after pos.:0  
L:6996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:395 after pos.:0  
L:7089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:396 after pos.:0  
L:7167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:397 after pos.:0  
L:7240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:398 after pos.:0  
L:7323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:399 after pos.:0  
L:7371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:400 after pos.:0  
L:7439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:401 after pos.:0  
L:7517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:402 after pos.:0  
L:7590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:403 after pos.:0  
L:7678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404 after pos.:0  
L:7706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:405 after pos.:0  
L:7734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:406 after pos.:0  
L:7762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:407 after pos.:0  
L:7790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:408 after pos.:0  
L:7818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409 after pos.:0  
L:7846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:410 after pos.:0  
L:7874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:411 after pos.:0  
L:7902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:412 after pos.:0  
L:7925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:413 after pos.:0  
L:7948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:414 after pos.:0  
L:7971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:415 after pos.:0  
L:7994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:416 after pos.:0  
L:8017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:417 after pos.:0  
L:8040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:418 after pos.:0  
L:8063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:419 after pos.:0  
L:8086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:420 after pos.:0  
L:8113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:421 after pos.:0  
L:8140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:422 after pos.:0  
L:8168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:423 after pos.:0  
L:8201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:424 after pos.:0  
L:8234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:425 after pos.:0  
L:8267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:426 after pos.:0  
L:8300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:427 after pos.:0  
L:8333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:428 after pos.:0  
L:8366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:429 after pos.:0  
L:8393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:430 after pos.:0  
L:8420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:431 after pos.:0  
L:8492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:432 after pos.:0  
L:8569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:433 after pos.:0  
L:8621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434 after pos.:0  
L:8673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:435 after pos.:0  
L:8750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:436 after pos.:0  
L:8802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:437 after pos.:0

**VERIFICATION SUMMARY**

DATE: 12/12/2005

PATENT APPLICATION: US/10/800,487A

TIME: 10:21:06

17-05.ST25.txt

Input Set : D:\400.148 (04-218) US Sequence Listing - Rev 11-

Output Set: N:\CRF4\12122005\J800487A.raw

L:8879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:438 after pos.:0